IPL T S Series

One, Two, Four, and Six Serial Port IP Link® Ethernet Control Interfaces

COMMON FEATURES

- **Allows Web-based remote monitoring and remote control of A/V devices from any computer connected to a LAN, WAN, or the Internet**
- **E-mail notification enables proactive support** — Technical support administrators and others can receive failure and service messages through an e-mail enabled cell phone, PDA, pager, or Internet e-mail account.
- **Integral high performance Web server** — Each IP Link interface features a built-in Web server with memory available for storing device drivers, GlobalViewer, and custom user Web pages.
- **7.25 MB of available flash memory**
- **Support for bidirectional RS-232, RS-422, and RS-485 serial communication** — For remotely and proactively monitoring and troubleshooting projectors, plasma displays, switchers, and other serially controlled devices. Note: The IPL T S1 supports RS-232 only.
- **Serial port pass-through** — Two-, four-, and six-port models can be configured for pass-through mode, enabling each pair of ports on the interfaces to pass through commands and control a single device.
- **Supports industry standard Ethernet protocols** — All IP Link models use industry standard Ethernet communication protocols, including ARP, DHCP, ICMP, UDP/IP, TCP/IP, Telnet, HTTP, and SMTP.
- **Simultaneous multi-user support** — Each IP Link device supports multiple concurrent users, improving system throughput.
- **Multiple levels of access with password protection** — User access level authorizes limited entry to only pre-designated functions, while administrator access level permits full access to advanced settings.
- **Free Global Configurator, easy-to-use configuration utility** — Global Configurator software, a free Windows®-based configuration utility, makes product setup simple and intuitive – no programming knowledge is required.
- **Free GlobalViewer®, Web-based asset management application** — When used with GlobalViewer, IP Link interfaces provide a powerful, flexible way to manage, monitor, and control both Extron and third-party equipment like projectors, plasmas, monitors, VCRs, DVD players, and other devices using a standard TCP/IP network.
- **Extensive library of device drivers** — Device drivers allow Extron products to control various display and source devices, such as projectors, flat-panel displays, and DVD players. Extron has produced thousands of fully tested and uniformly modeled RS-232 and IR device drivers.
- **Internal real-time clock** — Programmable operating alerts, sequencing, and automatic monitoring, together with the real-time clock and calendar, allow IP Link interfaces to routinely check configured devices.
- **Plenum rated - meets UL 2043 for heat and smoke release, excluding power supply**
- **External universal power supply included**, part # 70-055-01 — Provides worldwide power compatibility.

DESCRIPTION

The Extron **IPL T S Series** of compact Ethernet control interfaces feature an integral high performance Web server and are designed to integrate IP - Internet Protocol connectivity into A/V systems, giving users the ability to remotely and proactively monitor and troubleshoot projectors, flat-panel displays, switchers, and other serially controlled products.

The IPL T S Series uses Extron's exclusive IP Link® technology, a high performance intelligent network integration solution specifically engineered to meet the needs of professional A/V environments, from large universities and businesses to small home installations. Multiple Ethernet-enabled A/V products can be managed and supported using a networked computer running Internet Explorer 6.0 or later.

E-mail Capabilities for Proactive Service

With e-mail notification, technical support administrators can receive failure and service messages through an e-mail enabled cell phone, PDA, pager, or Internet e-mail account. For secure installations that do not allow Internet access, online monitoring can still be performed proactively. Within an existing secure infrastructure, e-mail notification of failures and repairs is possible without compromising the security of the A/V systems and facility.

GlobalViewer™ Web-based Asset Management Application

Extron GlobalViewer is the free, Web-based, asset management and control application designed specifically for IP Link Ethernet network interfaces. GlobalViewer enables asset management functions that include proactive maintenance event scheduling, remote technical support, and theft alerts.

IPL T S Models

Model	Port Type		RS-232	RS-422	RS-485
	9-pin D Sub	Captive Screw			
IPL T S1	1		●		
IPL T S2	2*	2	●	●	●
IPL T S4	4		●	●	●
IPL T S6	2	4**	●	●	●

* The IPL T S2 includes two captive screw ports that are connected in parallel with the 9-pin ports.
** The captive screw ports on the IPL T S6 are only compatible with RS-232 serial communication.

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Extron®

IPL T S Series

IPL T S1

One Serial Port IP Link® Ethernet Control Interface

UNIQUE FEATURES

- One bidirectional RS-232 serial port
- NEW 7.25 MB of available flash memory
- Low-profile form factor
- Optional MBU 125 1U, 1/2 Rack Width, Under-Desk Mount Kit available, part # 70-077-01

MODEL	VERSION DESCRIPTION	PART #
IPL T S1	One serial port	60-801-81

IPL T S2

Two Serial Port IP Link® Ethernet Control Interface

UNIQUE FEATURES

- Two bidirectional RS-232, RS-422, or RS-485 serial ports
- Support for Power over Ethernet, PoE 802.3af

MODEL	VERSION DESCRIPTION	PART #
IPL T S2	Two serial ports	60-544-81

IPL T S4

Four Serial Port IP Link® Ethernet Control Interface

UNIQUE FEATURES

- Four bidirectional RS-232, RS-422, or RS-485 serial ports
- Support for Power over Ethernet, PoE 802.3af

MODEL	VERSION DESCRIPTION	PART #
IPL T S4	Four serial ports	60-544-83

IPL T S6

Six Serial Port IP Link® Ethernet Control Interface

UNIQUE FEATURES

- Two bidirectional RS-232, RS-422, or RS-485 serial ports
- Four bidirectional RS-232 serial ports
- Support for Power over Ethernet, PoE 802.3af

MODEL	VERSION DESCRIPTION	PART #
IPL T S6	Six serial ports	60-544-84

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IPL T S Series

IPL T S Series Accessories

OPTIONAL ACCESSORIES	MODEL DESCRIPTION	PAGE	PART #
RSU 129	1U 9.5" Deep Universal Rack Shelf Kit	page 819	60-190-01
RSF 123	1U 3.5" Deep VersaTools® Rack Shelf Kit	page 818	60-190-20
MBU 125	1U, 1/2 & 1/4 Rack Width, Under-Desk Mount Kit for Two-Piece Enclosure	page 815	70-077-01
MBU 123	VersaTools® Mini Under-Desk Mount Kit	page 815	70-212-01
PMK 100	One VersaTools®, 1/4 Rack Width Mini Projector Mounting Kit	page 813	70-217-01
PMK 200	1U, 1/2 & 1/4 Rack Width Projector Mounting Kit for Two-Piece Enclosure	page 813	70-077-04

SPECIFICATIONS

ETHERNET CONTROL INTERFACE

Connectors 1 RJ-45 female connector
Data rate 10/100Base-T, half/full duplex with autodetect
Protocols ARP, DHCP, ICMP (ping), TCP/IP, UDP/IP, Telnet, HTTP, SMTP
Default settings Link speed and duplex level = autodetected
IP address = 192.168.254.254
Subnet mask = 255.255.0.0
Gateway = 0.0.0.0
DHCP = off
Web server Up to 200 simultaneous sessions
7.25 MB nonvolatile user memory
Program control Extron's Simple Instruction Set (SIS™)
Global Viewer requirements Microsoft® Internet Explorer ver. 6 or higher

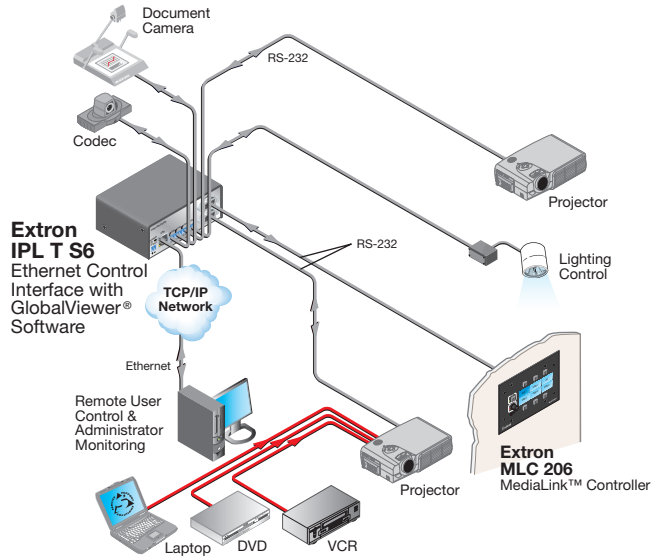
SERIAL CONTROL INTERFACE

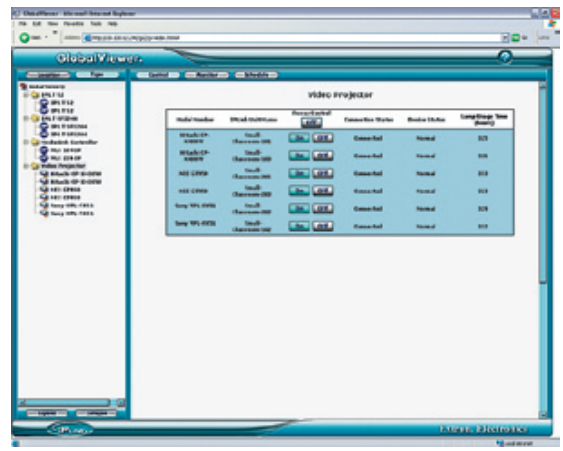
Quantity / Type
IPL T S1 1 RS 232-only
IPL T S2 2 RS-232/RS-422/RS-485 configurable serial
IPL T S4 4 RS-232/RS-422/RS-485 configurable serial
IPL T S6 2 RS-232/RS-422/RS-485 configurable serial and 4 RS-232-only
Connectors
IPL T S1 (1) 9-pin male D
IPL T S2 (2) 9-pin male D and (1) 3.5 mm captive screw connector, 5 pole
IPL T S4 (4) 9-pin male D
IPL T S6 (2) 9-pin male D and (1) 3.5 mm captive screw connector, 10 pole
Baud rate and protocol 300 to 115200 baud
Default settings (adjustable): 9600 baud, 8 data bits, 1 stop bit, no parity
Pin configurations
Serial, 9-pin D (IPL T S1)
RS 232 2 = RX, 3 = TX, 5 = GND, 7 = RTS, 8 = CTS
Serial, 9-pin D
(IPL T S2, IPL T S4)
RS-232 (default) 2 = RX, 3 = TX, 5 = GND, 7 = RTS, 8 = CTS
RS-422 2 = RX-, 3 = TX-, 5 = GND, 7 = TX+, 8 = RX+
RS-485 2&3 (tied together) = data-, 5 = GND, 7&8 (tied together) = data+
Serial, 5-pole captive screw
(IPL T S2) COM1: pin 1 = TX, 2 = RX, 3 = GND
COM2: pin 4 = TX, 5 = RX, 3 = GND
Serial, 10-pole captive screw
(IPL T S6) COM3: pin 1 = TX, 2 = RX, 3 = GND
COM4: pin 4 = TX, 5 = RX, 3 = GND
COM5: pin 6 = TX, 7 = RX, 8 = GND
COM6: pin 9 = TX, 10 = RX, 8 = GND

GENERAL

Power Supplied by an included external power supply
Alternatively, the IPL T S2, IPL T S4, and IPL T S6 can use power supplied over LAN/Ethernet (802.3af, class 2).
External power supply 100 VAC to 240 VAC, 50/60 Hz, external, universal, to 12 VDC, 1 A, regulated
Power input requirements 12 VDC, 0.5 A (max.)
Temperature / Humidity Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing
Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Rack mount
IPL T S1 Yes, with optional 1U 9.5" deep rack shelf kit, part #60-190-01; or the 1U 3.5" deep VersaTools® rack shelf kit, part #60-190-20. Also under-furniture mountable with optional kit #70-077-01 or projector mountable with optional kit #70-077-04
All other models Yes, with optional 1U 9.5" deep rack shelf kit, part #60-190-01; or the 1U 3.5" deep VersaTools® rack shelf kit, part #60-190-20. Also under-furniture mountable with optional bracket kit #70-212-01 or projector mountable with optional bracket kit #70-217-01
Enclosure type Metal
Enclosure dimensions
IPL T S1 1.0" H x 4.3" W x 3.0" D (1U high, quarter rack wide)
2.5 cm H x 10.9 cm W x 7.6 cm D
(Depth excludes connectors.)
All other models 1.7" H x 4.3" W x 3.0" D (1U high, quarter rack wide)
4.3 cm H x 10.9 cm W x 7.6 cm D
(Depth excludes connectors.)
Product / Shipping weight 0.7 lbs (0.3 kg) / 2 lbs (1 kg)
Vibration ISTA 1A in carton (International Safe Transit Association)
Listings UL, CUL
UL rated for use in a plenum air space: meets UL2043 for heat and smoke release, excluding the power supply; meets UL60950 for safety.
Compliances CE, FCC Class A, VCCI, AS/NZS, ICES
MTBF 30,000 hours
Warranty 3 years parts and labor

NOTE: All nominal levels are at ±10%. Specifications are subject to change without notice.





GlobalViewer Asset Management Application

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